

# Notice of Allowability

Application No.

10/629,683

Examiner

Andy S. Rao

Applicant(s)

KIM, EUNG TAE

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Entered AF amendment of 9/24/07.
2. ☒ The allowed claim(s) is/are 1-4, 6-32 (respectively renumbered as claims 1-31).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Allowable Subject Matter*

1. Claims 1-4, 6-32 are allowed.

Independent claim 1 recites "...wherein the PVR engine comprises: a video feature extractor for extracting error correction information, header information and macroblock information from the video PES outputted through the TS decoder, analysis characteristics of a video sequence, and then outputting analyzed information; an index engine for storing the TS bitstream outputted through the TS decoder and the analyzed information extracted by the video feature extractor in the storage medium; and a search engine for searching for and displaying the TS bitstream and the analyzed information stored in the storage medium..." which is a feature that is not anticipated nor obvious over the art of record. Independent claim 20 recites "...a first TS (Transport) decoder for selecting one of a plurality of channel signals and a PVR (Personal Video Recorder) input signal outputted from the HDD, decoding a video PES (Packetized Elementary Stream) from a TS (Transport) bitstream of a selected signal, and outputting the decoded video PES; a second TS decoder for selecting one of the plurality of channel signals, decoding the video PES from the TS bitstream of the selected signal, and outputting the decoded video PES along with the TS bitstream; a video decoder for variable-length-decoding the video PES outputted from the first and second TS decoders, and restoring the video PES to pixel values of an original picture through an IQ (Inverse Quantization) process, an IDCT (Inverse Discrete Cosine Transform) process, and an MC (Motion Compensation) process; a video feature extractor for extracting error correction information, header information and macroblock information from the video PES outputted through the second TS decoder, analysis characteristics of a video sequence, and then outputting analyzed information; an index engine

Art Unit: 2621

for storing the TS bitstream outputted through the second TS decoder and the analyzed information extracted by the video feature extractor in the HDD..." which are features that are not anticipated nor obvious over the art of record..." Dependent claims 6-19, and 21-33 are allowed for the reasons concerning the independent claims.

### *Conclusion*

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andy S. Rao  
Primary Examiner  
Art Unit 2621

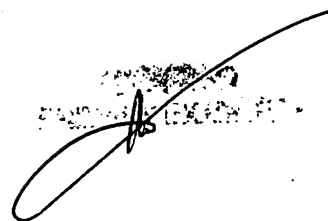
Application/Control Number: 10/629,683

Page 4

Art Unit: 2621

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October 30, 2007

A handwritten signature in black ink, consisting of a large, sweeping loop followed by a smaller, more complex mark.